



Kentucky Energy Efficiency Program for Schools

KEEPS Next Steps



KPPC

Kentucky's Resource Center for
Environmental Sustainability

UNIVERSITY OF
LOUISVILLE[®]

J.B. SPEED SCHOOL
OF ENGINEERING 

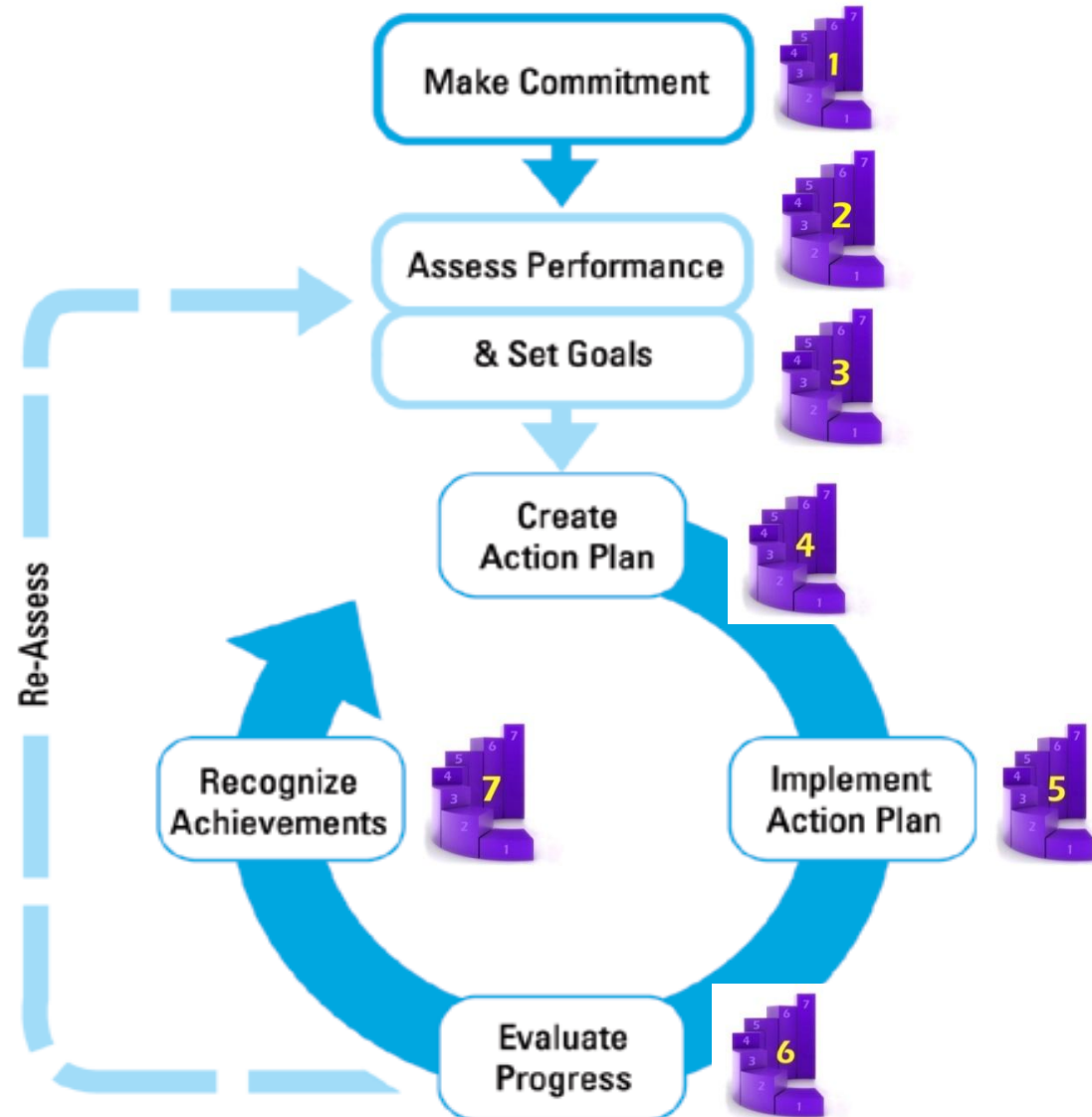
KEEPS

Purpose: Help school districts reduce energy consumption & lower operating expenses.

- Tools:
 - Training
 - Coaching
 - Public Recognition
 - ENERGY STAR® 7-Steps
- Partners:
 - NEED (National Energy Education Development)
 - Green & Healthy Schools

ENERGY STAR®

7 Step Energy Management Process



Step 1: *Set the Foundation*

- ☒ Institute Energy Management Policy
- ☐ Implement Plan for Communicating Energy Policy
- ☐ Create/Expand Energy Team
- ☐ Become an ENERGY STAR® Partner

Step 2: Assessing Energy Performance

- **Phase 1: Utility Bill Analysis**
 - Check for billing errors
 - Tariff rate analysis
 - Identify opportunities to reduce demand
- **Phase 2: On-site Assessment**
 - Conduct assessments on sample schools
 - Identify and evaluate E2 opportunities
 - Lighting, motors, HVAC

KEEPS Commitment to You

- Support Energy Team
- Help develop strategies
- Facilitate setting goals and writing energy plan
- Provide technical assistance

We'll be there when you need us!



“Empowering students to create healthier, safer, and more environmentally sustainable schools and communities.”

Merin Roseman, Program Coordinator

www.greenschools.ky.gov

A joint program of the Kentucky Environmental Education Council and the Kentucky Department of Education.



Why Join?

- Any PreK-12 School in Kentucky is eligible.
- Students solve real-world and relevant problems in their schools and communities.
- Projects often result in increased energy efficiency.
- Completely free of charge.
- Schools receive support and funding opportunities through the program coordinator.
- Very flexible to teacher and student needs.
- Recognizes students at an annual summit.
- Web-based for easy submissions and minimal paperwork.

How it Works

- Schools complete inventories in 9 categories.
 - Inventories serve as a “needs-assessment”.
- Students design and implement a project that will improve their school in one of the 9 categories.
- As students complete categories, they become eligible for awards (plaques, banners, flags, etc.)



Success Stories

Henry Clay High School

Implemented an energy policy that saves the school \$18,000 a year in energy costs, installed rain garden to decrease urban runoff.

Calvary Elementary School

Created and implemented a plan to go “Zero Waste” for one week for the entire school.

Calloway County Middle School

Composting yard waste and cafeteria food waste
Expanded student run-recycling program to include plastic bottles
Paper collection program where a local company purchases paper to manufacture writing paper and paper towels. CCMS has collected over 19,000 pounds of paper. Proceeds from paper collection are donated to the Youth Service Fund, which assists underprivileged students with schools and medical funds.

West Hardin Middle School

Completed a study on idling busses in the school parking lot Sent a letter to the superintendent to report their findings and concerns about the idling busses when they weren't necessary to be on.



How to Join

- Go to www.greenschools.ky.gov, and download and submit a pledge form.
- If you have any questions, see Merin Roseman in the exhibit area, or email her at merin.roseman@ky.gov



The NEED Project

30 Years of Energy Education



Mary Spruill, Executive Director

What is NEED?

National Energy Education Development

The mission of the NEED Project is to promote an energy conscious and educated society by creating networks of students, educators, and business, government, and community leaders to design and deliver objective, multi-sided energy education programs.

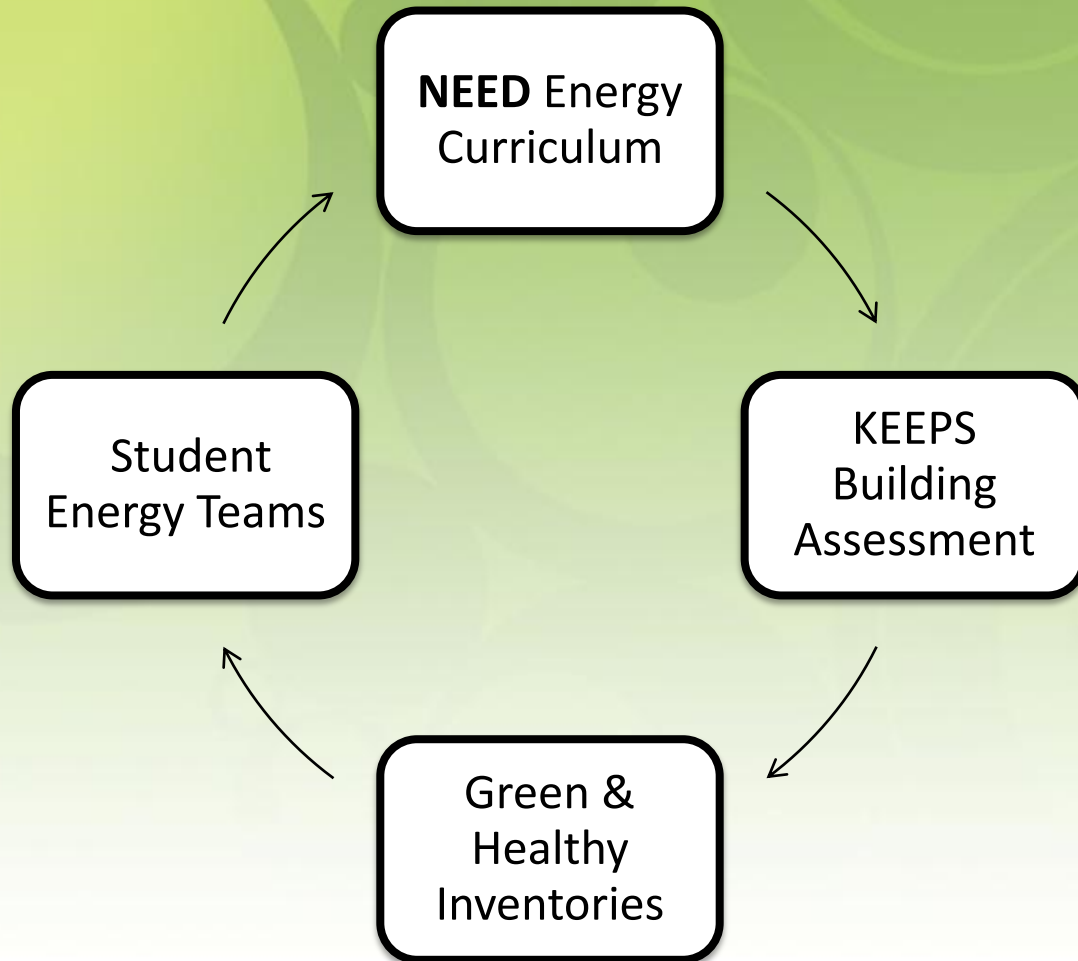


In 2008-2009:

- 600 workshops - 16 in KY
- 65,000 classrooms
- 50 states, Washington, D.C. and U.S. territories

High Performance Schools Partnerships

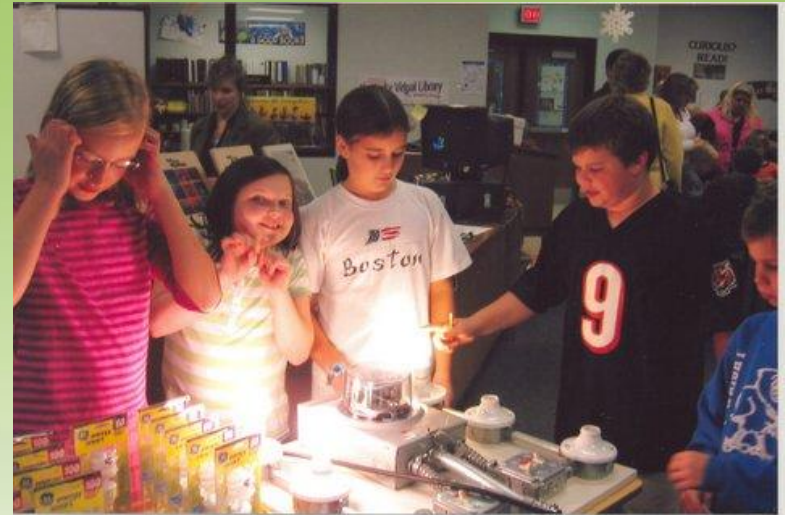
NEED Connection



NEED Curriculum

Academic Support

- K – 12 Program
- Aligned to State and National Standards
- Updated annually
- Download materials at no cost
- Hands-on kits
- Prepares students for real world experiences



NEED Student Energy Teams

Implementing High Performance Practices

- Regional Coordinators
- Energy Management Guide for Student Energy Teams
- Energy Assessment Tools



Energy Management Tool Kits

For all grade levels

Primary Students

➤ *Building Buddies*

Elementary & Intermediate Students

➤ *Monitoring & Mentoring*

Secondary Students

➤ *Learning & Conserving*



Getting Started

Achieving High Performance

- Teacher Training
- “Kids Teaching Kids”
- Blueprint for Student Team
- Energy Management Tools
- State and National Youth Awards



Making the Connection

Kentucky NEED
+
KEEPS
+
Green and Healthy Schools
=
Kentucky High Performance Schools